BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- CONSTRUCTION OF WARD OFFICE ADDITIONAL WORK, FURNITURE ETC IN WARD NO.05, BYATARAYANAPURA

Modified Estimate

Sl. No.	Description of Item	Unit	No	Length (m)	Breadt (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
52	Providing & Fixing of Mineral Fibre Suspended Ceiling System in the module size of 600x600x19mm with exposed grid. The tiles should have Humidity Resistance(RH) of 99%, Light Reflectance 87%, Thermal conductivity k=0.052-0.057w/m K,NRC-0.7, colour white, Fire Performance UK A2 S1, do with antimicrobial coating on the face of the tile, suitable for zone 4 area according to NF S 90-35:2003 with clean room clss of ISO 5(class 100), Decontamination class of CP10 and Bactoriological cleanlines class B1 for specific strains and reduction in colony size. Washability properties of 500 wash cycles as per ASTM D-4828 and suitable for Green Building application with Recycled content of 37%. The tile shall be laid on 24mm wide T-section flanges colour white having rotary stitching on all t sections i.e. the main runner, 1200mm & 600mm cross tees with web height f 38mm and a load carrying sections should have a galvanizing of 90grmas per sqm and need to be installed with suspension system of approved makecomplete as per specifications and directions of Engineer incharge of work.								
	Item not operated								
53	Providing and fixing veneer paneling over the 50mm x 35mm sal wood frame work at spacing not exceeding 600mm c/c fixed to the wall and top covered out of 4mm thick approved veneer fixed over 12mm ply of approved brand ,termite and water resistant,finished with mealamme polish, complete including cost and conveyance of all materials, labour for all items of work HOM of equipment etc., complete as per specifications and directions of Engineer incharge of work.								
	Item not operated								
54	Providing and fixing of Aluminium composite panel of approved make and colour for wall cladding for straight Brick/Rcc/stone walls & coloumns/beams with necessary aluminium frame works at required level made out of 50x25x3mm C section or equalent. The panel should consist of 2.5 mm thermoplastic core of antitoxic LDPE sandwiched between 0.25 skins thick aluminium sheet making a total panel thickness of 3mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done using weather sealant of Dow Corning 789 with necessary rods etc., complete as per specifications and directions of Engineer incharge of work.								
	Item not operated								
55	Providing and fixing of Aluminium composite panel of approved make and colour for wall cladding for straight Brick/Rcc/stone walls & coloumns/beams with necessary aluminium frame works at required level made out of 50x25x3mm C section or equalent. The panel should consist of 2.5 mm thermoplastic core of antitoxic LDPE sandwiched between 0.25 skins thick aluminium sheet making a total panel thickness of 3mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done using weather sealant of Dow Corning 789 with necessary rods etc., complete as per specifications and directions of Engineer incharge of work. First Floor								
	Item not operated								
56	Providing and fixing of Aluminium composite panel of approved make and colour for wall cladding for straight Brick/Rcc/stone walls & coloumns/beams with necessary aluminium frame works at required level made out of 50x25x3mm C section or equalent. The panel should consist of 2.5 mm thermoplastic core of antitoxic LDPE sandwiched between 0.25 skins thick aluminium sheet making a total panel thickness of 3mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done using weather sealant of Dow Corning 789 with necessary rods etc., complete as per specifications and directions of Engineer incharge of work. Second Floor								
	Item not operated								

Scanned by TapScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- CONSTRUCTION OF WARD OFFICE ADDITIONAL WORK, FURNITURE ETC IN WARD NO.05, BYATARAYANAPURA

Modified Estimate

Sl. No.	Description of Item	Unit	No	Length (m)	Breadt (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
57	Providing, fabricating and fixing of stick type structural glazing using Alluminium Extrusions of 63.5 mm x 58.00 mmx 2.25 mm of 1.73 kgs/ mtr for vertical and Horizontal members and 63.5 mm x 38.1 x 1.33 mm of 0.759 kg/Mtr, as outer frame with Electro Anodized Paint coated block finishing, using 6mm thick imported glass reflective hard coatedocean blue raw glass with all necessary accesories like ultra glass Silicon sealant of Space tape, Masking tape, Galvanized Anchaor bolt, machine screws, 6mm thick M.S. angle 50mm x 150mm x 6mm M.S. Galvanized L Brackets, structural sealent setting clocks, fasteners, wall connection etc., complete as per specifications and directions of Engineer incharge of work.								
	Item not operated								
58	Providing, fabricating and fixing of stick type structural glazing using Alluminium Extrusions of 63.5 mm x 58.00 mmx 2.25 mm of 1.73 kgs/ mtr for vertical and Horizontal members and 63.5 mm x 38.1 x 1.33 mm of 0.759 kg/Mtr, as outer frame with Electro Anodized Paint coated block finishing, using 6mm thick imported glass reflective hard coatedocean blue raw glass with all necessary accesories like ultra glass Silicon sealant of Space tape, Masking tape, Galvanized Anchaor bolt, machine screws, 6mm thick M.S. angle 50mm x 150mm x 6mm M.S. Galvanized L Brackets, structural sealent setting clocks, fasteners, wall connection etc., complete as per specifications and directions of Engineer incharge of work. First Floor								
	Item not operated								
59	Providing, fabricating and fixing of stick type structural glazing using Alluminium Extrusions of 63.5 mm x 58.00 mmx 2.25 mm of 1.73 kgs/ mtr for vertical and Horizontal members and 63.5 mm x 38.1 x 1.33 mm of 0.759 kg/Mtr, as outer frame with Electro Anodized Paint coated block finishing, using 6mm thick imported glass reflective hard coatedocean blue raw glass with all necessary accesories like ultra glass Silicon sealant of Space tape, Masking tape, Galvanized Anchaor bolt, machine screws, 6mm thick M.S. angle 50mm x 150mm x 6mm M.S. Galvanized L Brackets, structural sealent setting clocks, fasteners, wall connection etc., complete as per specifications and directions of Engineer incharge of work. Second Floor								
	Item not operated								
E1	Pg No 43,Item No 7.29 Fabrication supplying and erecting M.S. tubular trusses of all spans with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the. members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification								
	RHS 96X48X3.0 @ 6.71kg/m	kg	From Steel Calculation				95.28		
	ISA 40X40X2.6 @ 2.92kg/m	Kg	From Steel Calculation				61.90		
						Total Executed Quantity	**157.19**	**125.85**	**19781.86**
E2	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.Pg No.299 Item No.38.30								
	Headroom	Sqm	1.00	**7.10**	**5.30**		37.63		
						Total Executed Quantity	**37.63**	**780.04**	**29353.03**

Scanned by TapScanner

NAME OF WORK:- CONSTRUCTION OF WARD OFFICE ADDITIONAL WORK, FURNITURE ETC IN WARD NO.05, BYATARAYANAPURA

BRUHAT BANGALORE MAHANAGARA PALIKE

Modified Estimate

Sl. No.	Description of Item	Unit	No	Length (m)	Breadt (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
13	Fabricating, providing and erecting in position of MS. Hot dip galvanized Sq Hallow Poles of 132*132 Heavy gauge of length 3000mm with MS. Hot dip galvanized grill work as per approved design and drawing of chief architect. Using 12*65mm galvanized flat for alround frame and 20mm*20mm galvanized forged design with square for vertical at 150mm C/C as shown in the drawing including providing forged omamenttal arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placiing welding all the joints, including grinding, finishing 2 coats of anti corrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS Hallow galvanized pipe, flat, forged square rods, coat of labour for all items of work cost painting, welding, Cutting, grinding with all lead and lift as per specification including loading with cost and conveyance of all materials, labour machinery and incidental charges for the successful complete of the work as per the direction Engineer-in-charge of the work.								
	Compound Wall								
		Sqm	1	2.02		1.90	3.84		
		Sqm	1	3.23		1.90	6.14		
		Sqm	1	3.65		1.87	6.83		
		Sqm	1	3.66		1.88	6.88		
		Sqm	1	3.45		1.90	6.55		
		Sqm	1	3.47		1.90	6.59		
		Sqm	1	3.45		1.90	6.56		
		Sqm	1	0.97		1.90	1.83		
		Sqm	1	2.52		1.90	4.78		
		Sqm	1	3.49		1.88	6.55		
		Sqm	1	3.48		1.90	6.61		
		Sqm	1	3.49		1.90	6.62		
		Sqm	1	3.43		1.90	6.52		
		Sqm	1	3.80		1.90	7.22		
		Sqm	1	3.25		1.90	6.18		
		Sqm	1	2.05		1.90	3.90		
		Sqm	1	1.50		1.90	2.85		
						Total Executed Quantity	**96.43**	**16408.37**	**1582244.74**
E4	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer including cost of materials ,labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.								
		Sqm	2	1.45		2.10	6.09		
						Total Executed Quantity	**6.09**	**7578.82**	**46155.02**
E5	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In all kinds of soils Depth upto 3 m as per the direction of Engineer-In-Charge								
	Compound wall								
		Cum	1	2.63	0.6	0.75	1.18		
		Cum	1	14	0.6	0.75	6.30		
		Cum	1	8.815	0.6	0.75	3.97		
		Cum	1	19.14	0.6	0.75	8.61		
		Cum	1	6.7	0.6	0.75	3.02		
		Cum	1	2.4	0.6	0.75	1.08		
						Total Executed Quantity	**24.16**	**84.30**	**2036.33**

Scanned by TapScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- CONSTRUCTION OF WARD OFFICE ADDITIONAL WORK, FURNITURE ETC IN WARD NO.05, BYATARAYANAPURA

Sl. No.	Description of Item	Unit	Modified Estimate No	Length (m)	Breadt (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
E6	Providing and laying in position plain cement concrete for lewelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates								
	Compound wall								
	Below SSM								
		Cum	1	2.63	0.6	0.15	0.24		
		Cum	1	14	0.6	0.15	1.26		
		Cum	1	8.815	0.6	0.15	0.79		
		Cum	1	19.14	0.6	0.15	1.72		
		Cum	1	6.7	0.6	0.15	0.60		
		Cum	1	2.4	0.6	0.15	0.22		
						Total Executed Quantity	4.83	6614.58	31958.36
E7	Providing and laying in position Reinforced cement concrete for all Sub tructures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite /trap /basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates								
	Compound wall								
	Above SSM								
		Cum	1	2.63	0.6	0.15	0.24		
		Cum	1	14	0.6	0.15	1.26		
		Cum	1	8.815	0.6	0.15	0.79		
		Cum	1	19.14	0.6	0.15	1.72		
		Cum	1	6.7	0.6	0.15	0.60		
		Cum	1	2.4	0.6	0.15	0.22		
	For Poles	Cum	14	0.45	0.48	0.45	1.36		
	Concrete around building								
	Front Portion	Cum	1	15.0	4.6	0.15	10.35		
		Cum	1	9.6	3.83	0.15	5.51		
	Right Side of Building	Cum	1	33.5		0.15	5.03		
				Triangle Portion area=33.5					
		Cum	1	18.2		0.15	2.73		
				Triangle Portion area=18.2					
	Left Side of Building	Cum	1	8.5	3.8	0.15	4.85		
		Cum	1	9.1	2.44	0.15	3.33		
	Building Back side	Cum	1	15.0	1.4	0.15	3.15		
		Cum	1	9.4	0.9	0.15	1.27		
	Near Drain	Cum	1	11.5	0.4	0.15	0.69		
						Total Executed Quantity	44.09	6794.11	299566.49

Scanned by TapScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- CONSTRUCTION OF WARD OFFICE ADDITIONAL WORK, FURNITURE ETC IN WARD NO.05, BYATARAYANAPURA

Modified Estimate

Sl. No.	Description of Item	Unit	No	Length (m)	Breadt (m)	Depth (m)	Quantity	Rate Rs	Amount Rs
E8	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)								
	Compound wall								
	Below Ground Level								
		Cum	1	2.63	0.6	0.6	0.95		
		Cum	1	14	0.6	0.6	5.04		
		Cum	1	8.815	0.6	0.6	3.17		
		Cum	1	19.14	0.6	0.6	6.89		
		Cum	1	6.7	0.6	0.6	2.41		
		Cum	1	2.4	0.6	0.6	0.86		
		Cum	1	2.63	0.5	0.35	0.46		
		Cum	1	14	0.5	0.60	4.20		
		Cum	1	8.815	0.48	0.6	2.54		
		Cum	1	19.135	0.48	0.6	5.51		
		Cum	1	6.7	0.5	0.5	1.68		
		Cum	1	2.4	0.5	0.45	0.54		
	Deduction								
	Concrete For Poles	Cum	-14	0.45	0.48	0.45	-1.36		
							Total Executed Quantity	**32.89**	**6180.38**	**203265.67**
E9	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/ Kankar /Moorum. (Tipper 5.5 m3)								
	Excavated earth	Cum		(Excavated earth - filling available Earth)					
							24.16		
							Total Executed Quantity	**24.16**	**136.26**	**3291.59**
E10	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km								
		t.km		24.16		1.28	30.92		
							Total Executed Quantity	**30.92**	**110.86**	**3427.72**
								Total Amount	**8609785.32**

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

Technical Sanction
Accorded For Rs.8609785.32
Head of A/C. P3801
CER NO :...60..... Dt:.. 13.03.2023

Scanned by TapScanner